ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ವಿಷಯ ..... ಟಿಪ್ಪಣಿ ಹಾಳೆ

.....

ಪುಟದ ಸಂಖ್ಯೆ ..... — 1 —

ಕಡತದ ಸಂಖ್ಯೆ ..... ಬ:ಆ/ಯಾ:ಅ/ವಿಅಶ/421/22-23

ಕಂಡಿಕೆ ಸಂಖ್ಯೆ	ಟಿಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು

ಮಂಡಿಸಿದೆ:

ವಿಷಯ:–ಯೋಜನಾ ವಿಭಾಗದಿಂದ ಅನುಷ್ಠಾನಗೊಳಿಸಿರುವ **Construction of School Building at Singapura in Ward No:11** ಕಾಮಗಾರಿಯ ಬಗ್ಗೆ

ಉಲ್ಲೇಖ:–1)ಕಾರ್ಯಾದೇಶ ಸಂಖ್ಯೆ: EE(Project)/YNK Zone/ WO/85/ 2021-22 ದಿನಾಂಕ: 21–08–2020

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Construction of School Building at Singapura in Ward No:11 ಅಂದಾಜು ಮೊತ್ತ ರೂ.**100.00** ಲಕ್ಷಗಳ ಕಾಮಗಾರಿಯು ಯಲಹಂಕ ವಲಯಕ್ಕೆ 2019–20ನೇ ಸಾಲಿನ ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ ಪಿ–**3589 (Special Development Works)** ಅನುದಾನದಡಿಯಲ್ಲಿ ಸೇರ್ಪಡೆಯಾಗಿರುತ್ತದೆ. ಸದರಿ ಕಾಮಗಾರಿಗೆ ಜಾಬ್ ಸಂಖ್ಯೆ **011-20-000074** ದೊರೆತಿರುತ್ತದೆ. ತದನಂತರ, ಸದರಿ ಕಾಮಗಾರಿಗೆ 2018–19ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ದರಪಟ್ಟಿ ಹಾಗೂ ಅನುಮೋದಿತ ದರಗಳನ್ವಯ ರೂ.**100.00** ಲಕ್ಷಗಳಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಿ ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ ಹಾಗೂ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿಯನ್ನು ಪಡೆಯಲಾಗಿರುತ್ತದೆ.

ಸದರಿ ಕಾಮಗಾರಿಗೆ ಇ–ಪ್ರಕ್ಯೂರ್‌ಮೆಂಟ್ ಮುಖೇನ ಟೆಂಡರ್ ಆಹ್ವಾನಿಸಲಾಗಿರುತ್ತದೆ ಸದರಿ ಟೆಂಡರ್‌ನಲ್ಲಿ ಅನುಮೋದಿತ ಗುತ್ತಿಗೆದಾರರಾದ **Sri.Kumar Raju(M/s Sri Vinayaka Builders)** ರವರ ಟೆಂಡರ್‌ನ್ನು 2018–19ನೇ ಸಾಲಿನ ಎಸ್.ಆರ್.ದರಪಟ್ಟಿಯಂತೆ ಶೇ.**4.99**%ರಷ್ಟು ಹೆಚ್ಚು ಸಂಧಾನಿತ ಮೊತ್ತಕ್ಕೆ ಮಿತಿಗೊಳಿಸಿ ರೂ.**87,15,587.00** ಗಳಿಗೆ ಕಾಮಗಾರಿ ನಿರ್ವಹಿಸಲು ಮಾನ್ಯ ವಿಶೇಷ ಆಯುಕ್ತರು(ಆಸ್ತಿಗಳು) ಹಾಗೂ ವಲಯ ಆಯುಕ್ತರು(ಯಲಹಂಕ) ಬಿಬಿಎಂಪಿ ರವರ ಸಂಖ್ಯೆ: 952/20–21 ದಿನಾಂಕ:**06-08-2020** ರಂತೆ ಅನುಮೋದನೆಯಾಗಿರುತ್ತದೆ. ಅದರಂತೆ ಗುತ್ತಿಗೆದಾರರಾದ **Sri.Kumar Raju(M/s Sri Vinayaka Builders)** ರವರಿಗೆ ದಿನಾಂಕ: **21-08-2020**ರಂದು ಕಾರ್ಯಾದೇಶ ನೀಡಲಾಗಿರುತ್ತದೆ.

ಮುಂದುವರೆದಂತೆ, ಸದರಿ ಕಾಮಗಾರಿಯಲ್ಲಿ ವಾರ್ಡ್ ನಂ:11ರ ಸಿಂಗಾಪುರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಸರ್ಕಾರಿ ಶಾಲೆ ಕಟ್ಟಡ ನಿರ್ಮಿಸಲು ಉದ್ದೇಶಿಸಿಸಲಾಗಿರುತ್ತದೆ.

ಪ್ರಸ್ತುತ ಸದರಿ ಕಾಮಗಾರಿಯ ವಾರ್ಡ್ ನಂ:11 ರ ಸಿಂಗಾಪುರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಸರ್ಕಾರಿ ಶಾಲೆ ಕಟ್ಟಡ ಕಾಮಗಾರಿ ಪೂರ್ಣಗೊಂಡಿದ್ದು, 3ನೇ ಮತ್ತು ಅಂತಿಮ ಬಿಲ್ಲಿನ ಮೊತ್ತ ರೂ. **22,38,857.00 ಮತ್ತು ಜಿ.ಎಸ್.ಟಿ ಮೊತ್ತ ರೂ 2,68,662.00 ಒಟ್ಟು ರೂ 25,07,520.00** ಸಲ್ಲಿಸಿದ್ದು, ಕಾಮಗಾರಿಗಳಿಗೆ ಗುಣಭರವಸೆ ವಿಭಾಗದಿಂದ ಪರಿಶೀಲನೆ ನಡೆಸಿ ವರದಿ ನೀಡುವಂತೆ ಕೋರಿ ಕಡತವನ್ನು ತಮ್ಮ ಮುಂದಿನ ಆದೇಶಕ್ಕಾಗಿ ಮಂಡಿಸಿದೆ.

ಸ.ಅ 20/11

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ಕಾ.ಪಾ.ಅ(ಯೋ.ವಿ–ಯ.ವ)

ಕಂಡಿಕೆ (1) ಅಂದ (3) ಕಲ್ಲಿ ಮತಿಪಡಿಸಿರುವಂತೆ, ಹೆಚ್ಚಿನ ಗುಣಮಟ್ಟದ ಕಾಮಗಾರಿ ಕೆಲಸಕ್ಕೆ ಗುಣಮಟ್ಟ ಕಾಯ್ದುಕೊಳ್ಳುವುದು

ಪು.ತಿ.ನೋ

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ವಿಷಯ :

ಪುಟದ ಸಂಖ್ಯೆ ..... -1-

ಕಡತದ ಸಂಖ್ಯೆ .....

ಕಂಡಿಕೆ ಸಂಖ್ಯೆ	ಟಿಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು

ಸೂಚನೆಯಂತೆ ಸ್ಥಳ ಪರಿಶೀಲನೆ ನಡೆಸಿ ವರದಿ ನೀಡುವಂತೆ ಕೋರಿ ಪತ್ರವನ್ನು ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು (ಸೂಚನೆ-ಎಚ್ಚರಿಕೆ)

(5) ಮುಖ್ಯ ಅಭಿಯಂತರರು (ಸೂಚನೆ-ಎಚ್ಚರಿಕೆ)

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರವರ ಕಛೇರಿ
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಸಂಖ್ಯೆ: 439
ದಿನಾಂಕ: 22/12/22
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ
ಪರಿಶೀಲನೆಗಾಗಿ.
22/12/22

(6) AEE (QA) - Yelahanka

please inspect the workspot & Submit report.

23/12/22

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಟಿಪ್ಪಣಿ ಹಾಳೆ

ವಿಷಯ .....

ಕಂಡಿಕೆ ಸಂಖ್ಯೆ ..... ಪುಟದ ಸಂಖ್ಯೆ .....3.....

ಕಡತದ ಸಂಖ್ಯೆ CE/EE/QA/439/22-23

ಟಿಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು

(7) Executive Engineer Project Division-Yelahanka has forwarded the file stating Construction of School Building at Singapura in ward no 11 (Job Code-011-20-000074) work was taken up for Construction of School Building at Singapura. Presently 3rd and Final Bill submitted to QA Division for this work which mainly includes items such as plastering (Internal & External), Granite Floring, Painting (Internal & External Wall Painting), Wooden doors, Aluminium Windows, MS Grill Works and Internal Electrification work.

(8) Engineer incharge of work has certified that the work was executed by agency and has appended photographs of work executed.

(9) Further, QC Reports has been obtained by 3rd Party (M/s Rudraprasad Consultants) for the above mentioned items of work and Test reports obtained from Bangalore University for Granite Slab. Test reports vide page no 01 to 10.

(10) Neither request for inspection was raised nor file was submitted to QA Office during the execution of the work. Therefore QA Division could not inspect the work during progress of work.

(11) QA/QC team at this juncture cannot verify/ascertain/conduct tests for the items of work already carried out. However during execution of work QC Reports are obtained from 3rd party and Bangalore University as explained above. Hence Engineer in charge of work may take necessary action which deems fit in accordance with law.

(12) **Table Indicating Component of work executed and Corresponding reports furnished by 3rd Party/Bangalore University**

Sl. No.	Component of work	Reports Furnished	Remarks
1	**Plastering (Internal & External)**	Test report obtained from 3rd Party for Cement Mortar cubes to analyze compressive strength for 3days, 7days& 28 days	IS 4031 Part 6 2019
2	**Granite Flooring**	Test report obtained from Bangalore University for specific gravity, Moisture Content, Hardness, Thickness & Compressive strength.	IS 14223 (Part 1) :1995 IS:1122-1974 IS:3316-1974
3	**Painting (Internal & External wall painting)**	Certified by 3rd party that two coats Asian paints used and work done as per specifications	Invoice for purchase of Asian paints Enclosed

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ಕಂಡಿಕೆ ಸಂಖ್ಯೆ	ಟಿಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು			
	4	**Wooden Doors**	Test report on moisture content of door shutter enclosed by 3rd Party	IS: 287:1993 (RA 2017)
	5	**Aluminum Windows**	Certified by 3rd Party that work done as per specification	Certificate enclosed by 3rd Party
	6	**MS Grill Work**	Test report enclosed stating window grill weighing 21.25 kg/sqm	Test report enclosed by 3rd Party
	7	**Internal Electrification work**	Certified by 3rd party that VIP Brand Conduit Pipes & Finolex Wires and also Anchor Brand electrical fixtures & accessories are used & completed as per specifications	Certificate enclosed by 3rd Party

(13) The concerned Engineer Incharge Of Work shall follow the directions issued by hon'ble Chief Commissioner latter dated:01.08.2022 and 14.09.2022 and take necessary actions as appropriate in accordance with law.

(14) Safety precautions shall be taken at work spot to prevent any mishap, injuries or loss of life to general public and others accordingly as per guidelines laid down in code of practice.

(15) Engineer Incharge of work shall display detailes of work, work code, cost of project, start and completion date and information of engineer incharge of work with contact numbers at work spot.

(16) Therfore the file ~~is~~ may be sent to Yelahanka Zone for further neccessary action.

31/1/23

Assistant Executive Engineer
(Quality Assurance-Yelahanka)

31/01/23

Executive Engineer
(Quality Assurance-Yelahanka)

(17)

31/1/23

(18) CE(QA/QC)

31/01/2023

19

20 ನೇ ನ.ಆ.ಸ.-(ಆಡಳಿತ-1/ಆಡಳಿತ)

07 FEB 2023

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Date: 20/09/2022

To,

ASSISTANT EXECUTIVE ENGINEER

PROJECT SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of **"CONSTRUCTION OF SCHOOL BUILDING AT SINGAPURA IN WARD NO.11."**

Ref: 1. Work Order No: EE(Project)/YnkZone/Wo/85/2020-21

2. Job code: 011-20-000074

We are herewith forwarding to Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097. Third and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.25,46,110.24 /- (Rs. Twenty Five Lakhs Forty Six Thousand One Hundred Ten and Twenty Four Paisa Only).

Thanking you,

Yours faithfully,

For Civil Pro

R KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Attachments PMC Compliance report

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NAME OF WORK:- "CONSTRUCTION OF SCHOOL BUILDING AT SINGAPURA IN WARD NO.11."

Name of Client	:	EXECUTIVE ENGINEER, PROJECT DIVISION, BBMP, BANGALORE
Contractor/ Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097
Total Cost	:	Rs.25,46,110.24 /-
Date Of Inspection	:	20-09-22
Status Of Bill	:	Third and Final
In the Presence of	:	a) Assistant Engineer Project division, BBMP, Bangalore

PMC COMPLIANCE REPORT

Sl. No.	Description of work	Comments/Observations
33	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
35	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
36	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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38	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
39	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
42	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
43	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
44	providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
45	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory

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Yelahanka Zone
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46	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications page no117 item no 15.49.1 . KSRB 15-14.1 : Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof as Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
47	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
48	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
50	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials,mortar,labour,curing etc.,Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
51	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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Sig.....
Date.....
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52	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
53	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 900mm.Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
54	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 900mm.Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
56	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
57	Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Sig.....
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58	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
59	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
60	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
61	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved quality.Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory

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62	KSRB 7.11 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved quality.Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
63	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
64	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory

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65	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
67	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically,spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., Complete as per specifications and the directions of the Engineer-in-charge	Work done upto the Billed Quantity and the Quality is satisfactory
68	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically,spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and directions of Engineer in charge (First Floor)	Work done upto the Billed Quantity and the Quality is satisfactory
74	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet complete as per specifications and directions of Engineer in charge Short point upto 3m.	Work done upto the Billed Quantity and the Quality is satisfactory

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75	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet complete as per specifications and directions of Engineer in charge Medium point above 3m - 6m.	Work done upto the Billed Quantity and the Quality is satisfactory
76	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe ……mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of unction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary complete as per specifications and directions of Engineer in charge 19/20mm dia, 2mm thick.	Work done upto the Billed Quantity and the Quality is satisfactory
77	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe ……mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of unction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary complete as per specifications and directions of Engineer in charge 25mm dia, 2mm thick .	Work done upto the Billed Quantity and the Quality is satisfactory
78	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe ……mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of unction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary complete as per specifications and directions of Engineer in charge 32mm dia, 2mm thick.	Work done upto the Billed Quantity and the Quality is satisfactory

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79	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary complete as per specifications and directions of Engineer in charge 19/20mm dia, 2mm thick .	Work done upto the Billed Quantity and the Quality is satisfactory
80	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary complete as per specifications and directions of Engineer in charge 25mm dia, 2mm thick .	Work done upto the Billed Quantity and the Quality is satisfactory
81	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary complete as per specifications and directions of Engineer in charge 32mm dia, 2mm thick .	Work done upto the Billed Quantity and the Quality is satisfactory
82	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall complete as per specifications and directions of Engineer in charge 1 - 3 Way .	Work done upto the Billed Quantity and the Quality is satisfactory
83	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall complete as per specifications and directions of Engineer in charge 4 - 5 Way .	Work done upto the Billed Quantity and the Quality is satisfactory
84	Supplying 6A flush type socket and 6 amp flush type SP switch either surface/flush mountinh in existing gang box or in 4mm thik plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wire as required as per IS 1293 and IS 3654 .	Work done upto the Billed Quantity and the Quality is satisfactory
85	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flusg mounted wooden box and wiring as per IS 1293 complete as per specifications and directions of Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory

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86	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854 complete as per specifications and directions of Engineer in charge 16Amps Combined switch and socket with indication.	Work done upto the Billed Quantity and the Quality is satisfactory
87	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854 complete as per specifications and directions of Engineer in charge Electronic stepped regulator.	Work done upto the Billed Quantity and the Quality is satisfactory
88	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 1.5sqmm	Work done upto the Billed Quantity and the Quality is satisfactory
89	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 2.5sqmm	Work done upto the Billed Quantity and the Quality is satisfactory
90	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 4 sqmm	Work done upto the Billed Quantity and the Quality is satisfactory
91	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 4 sqmm	Work done upto the Billed Quantity and the Quality is satisfactory
92	Suppiying and fixing of slim box Fitting ,made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast &Flouresent Tube. 1X4' Tube light Fitting	Work done upto the Billed Quantity and the Quality is satisfactory
93	Supplying capacitor type ceiling fan complete with down rod blades shackle, canopies etc, for operation on 230 volts, 50 cycles. single phase AC supply conforming to ISS-374-1979 and with double ball bearing system 48" sweep (1200mm)	Work done upto the Billed Quantity and the Quality is satisfactory

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Certificate No : TC-7648

Format No: CP/TF/01

TEST REPORT OF CEMENT MORTAR CUBES

Lab ID	:	CP-2022-11-24-16	**Date: 02/08/2022**
Project Name	:	Construction of School Building at Singapura in Ward No. 11	
Agency	:	Sri. Kumar Raja (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097	
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/85/2020-21	
Date of Receipt	:	30-07-22	
Customer ID	:	Cement Mortar Cube	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	53grade / 3 Days Compressive Strength	
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification . IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6 IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)	
Date of test	:	02/08/2022	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Mortar Cube	53grade	30/07/2022	02/08/2022	70.60 X 70.60 X 70.60	4984	0.958	144.0	28.9	29.0
2	Cement Mortar Cube	53grade	30/07/2022	02/08/2022	70.60 X 70.60 X 70.60	4984	0.955	142.1	28.5	
3	Cement Mortar Cube	53grade	30/07/2022	02/08/2022	70.60 X 70.60 X 70.60	4984	0.942	143.1	28.7	

* The results obtained are satisfactory as per standard requirements.

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Certificate No: 95/2022

Format No: CP/TR/01

TEST REPORT OF CEMENT MORTAR CUBES

Lab ID : CP-2022-11-24-16 **Date: 06/08/2022**

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Date of Receipt : 30-07-22

Customer ID : Cement Mortar Cube

Sample Type /Size : 150X150X150 mm

Sample grade/Age : 53grade / 7 Days Compressive Strength

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)

Date of test : 06/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Mortar Cube	53grade	30/07/2022	06/08/2022	70.60 X 70.60 X 70.60	4984	0.944	192.9	38.7	39.0
2	Cement Mortar Cube	53grade	30/07/2022	06/08/2022	70.60 X 70.60 X 70.60	4984	0.972	195.4	39.2	
3	Cement Mortar Cube	53grade	30/07/2022	06/08/2022	70.60 X 70.60 X 70.60	4984	0.988	196.4	39.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT MORTAR CUBES

Lab ID : **CP-2022-11-24-16**

Date: 27/08/2022

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Date of Receipt : 30-07-22

Customer ID : Cement Mortar Cube

Sample Type /Size : 150X150X150 mm

Sample grade/Age : 53grade / 28 Days Compressive Strength

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)

Date of test : 27/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Mortar Cube	53grade	30/07/2022	27/08/2022	70.60 X 70.60 X 70.60	4984	0.958	274.6	55.1	55.0
2	Cement Mortar Cube	53grade	30/07/2022	27/08/2022	70.60 X 70.60 X 70.60	4984	0.972	271.6	54.5	
3	Cement Mortar Cube	53grade	30/07/2022	27/08/2022	70.60 X 70.60 X 70.60	4984	0.968	272.6	54.7	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON POLISHED BUILDING STONE- GRANITE

Lab ID	:	**CP-2022-11-24-16** **Date: 06-08-22**
Project Name	:	Construction of School Building at Singapura in Ward No.11
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097
Customer's Reference	:	EE(Project)/YnkZone/Wo/85/2020-21
Date of Receipt	:	02-08-22
Sample Type	:	Hassan Green Granite
Reference to BIS codes	:	13030 : 1991-Dry density 1121 (Part 1) : 1974 - Compressive strength 1706 : 1972 -Resistance to wear by abrasion of natural building stones 1124 : 1974 - Water absorption
Date of test	:	02-08-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:14223(Part 1): 1995 (Pink Granite)
1	Dry Density (m/v)	2.61	2.58 to 2.63
2	Compressive Strength (Kg/cm2)	1125	1000-1500
3	Abrasion Test (mm)	0.38	Not greater than 2 mm on the average
4	Water Absorption	0.78	0-50 (max)
5	Thickness	20.03	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON POLISHED BUILDING STONE- GRANITE

Lab ID : **CP-2022-11-24-16** **Date: 06-08-22**

Project Name : Construction of School Building at Singapura in Ward No.11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/YnkZone/Wo/85/2020-21

Date of Receipt : 02-08-22

Sample Type : Sadarhalli gray granite

Reference to BIS codes : 13030 : 1991-Dry density
1121 (Part 1) : 1974 - Compressive strength
1706 : 1972 -Resistance to wear by abrasion of natural building stones
1124 : 1974 - Water absorption

Date of test : 02-08-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:14223(Part 1): 1995 (Multy Coloured & Grey Granites)
1	Dry Density (m/v)	2.64	2.60 to 2.68
2	Compressive Strength (Kg/cm2)	1558	1300-2200
3	Abrasion Test (mm)	0.42	Not greater than 2 mm on the average
4	Water Absorption	0.98	0-50 (max)
5	Thickness	20.08	–

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5545

WORK DONE CERTIFICATE

Lab ID : **CP-2022-11-24-16** **Date: 17-09-22**

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Sl. No	Description of Work	Comments/Observation
1	Wall Painting	It is Certified that Two coats of Asian Paint is used for Inside wall - Snow Blush code No L 138 Outside wall - Thick cream code No 7860 Columns - Mid day code No 7871 Parapet wall - Pebbal mass 7849 and Complete as per specifications
2	Aluminium Window	It is Certified that 2 track Aluminium Slinding Window has been provided and completed as per specifications

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Certificate No.: TC-5548

WORK DONE CERTIFICATE FOR INTERNAL ELECTRIFICATION WORK

Lab ID : **CP-2022-11-24-16** **Date: 17-09-22**

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Sl. No	Description of Work	Comments/Observation
1	Conduit Pipe	It is Certified that VIP Brand Conduit Pipes are used for internal electrification work, are found satisfactory and Completed as per specifications
2	Wire for Electrical Work	It is Certified that Finolex (ISI Certified) Wires are used for internal electrification Work, are found satisfactory and Completed as per specifications
3	Electrical Fixtures & Accessories	It is Certified that Anchor brand Electrical Fixtures & Accessories are used for electrical Work, are found satisfactory and Completed as per specifications

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF M.S GRILL

Lab ID : **CP-2022-11-24-16** **Date: 03-08-22**

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Type of Sample : M.S Grill

Sl. No	Description	Size		Weight (Kg)	Remarks
		Length (meter)	Breadth (meter)		
1	Window Grill	1.5	1.2	38.25	Satisfactory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON MOISTURE CONTENT OF TIMBER AND TIMBER PRODUCTS

Lab ID	:	**CP-2022-11-24-16** **Date: 27-07-22**
Project Name	:	Construction of School Building at Singapura in Ward No.11
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders) #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097
Customer's Reference	:	EE(Project)/YnkZone/Wo/85/2020-21
Date of Receipt	:	25-07-22
Sample Type	:	Timber
Reference to BIS codes	:	IS : 11215:1991(RA2020) Moisture Content of timber and Timber Product
Date of test	:	25-07-22

Sl.no	Description	Thickness (mm)
1	**Door Shutter**	30

Moisture Content of Timber

Sl.no	Tests	Result	Requirements as per IS:287:1993 (RA 2017)
1	Moisture Content of Door Shutter	7.20%	Maximum Permissible moisture content of timber for use in doors and windows (For Zone II) a) 50mm and above in thickness 12% b) Thinner than 50mm -10%

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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DEPARTMENT OF CIVIL ENGINEERING - U.V.C.E

NAAC Accreditation 'A' GRADE

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No. CED/ST/TE/2022-23

Date: 10-08-2022

TEST REPORT

Ref No: Nil dated 02nd August 2022

Name of client	The Executive Engineer, Project Division, Yelahanka Zone BBMP, Bengaluru
Name of the work	Construction of School Building at Singapura in Ward No-11
Sample ID	**Granite Slab, Source*: Sadarahalli Granite**
Sample supplied by	Sri. Kumar Raju (M/s. Sri Vinayaka Builders) Vidyaranyapura, Bangalore-560097
Reference IS codes	IS:1122-1974, IS:3316-1974 & IS:14223-1995

DEPARTMENT OF CIVIL ENGINEERING ☆ BANGALORE UNIVERSITY

TEST RESULTS

SL No	Type of Test conducted	Average Test Results	Permissible Limits	Reference BIS Codes
01	Specific Gravity	2.68	Shall not be less than 2.6	IS:1122-1974 IS:3316-1974 IS:14223-1995
02	Moisture Content	0.39%	Shall not be less than 0.5%	
03	Hardness	6	Mohr's Hardness number 6 to 7	
04	Thickness	20 mm	--	
05	Compressive strength	1850 kg/cm^2	1200 to 2200 kg/cm^2	

NOTE: 1. The results indicated above are based on the tests carried out on the samples supplied by the client.
2. The description given above is as per information given the client.
3. Any query regarding the report must be reported immediately.

Tested by

Dr.KIRAN.T
B.E. (Civil), M.E. (Structures),Ph.D.
Associate Professer
Department of Civil Engineering
UVCE, Bangalore of University,
Bengaluru-560 056

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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